

# INTERNATIONAL SEARCH REPORT

International Application No

:T/DK2004/000840

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C259/10 A61K31/165 C07D213/84 C07D401/12 C07D413/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07C A61K C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, EMBASE, CHEM ABS Data, BEILSTEIN Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/01426 A (WARNER-LAMBERT COMPANY; BARRETT, STEPHEN, DOUGLAS; BRIDGES, ALEXANDER,) 14 January 1999 (1999-01-14) cited in the application page 5, line 3 - line 8; claims 1,7,23,24; examples 6,7,10,13-102	1-44
X	WO 02/06213 A (WARNER-LAMBERT COMPANY; BARRETT, STEPHEN, DOUGLAS; BIWERSI, CATHLIN; K) 24 January 2002 (2002-01-24) cited in the application page 88 - page 119; claims 1,28-31,34; examples	1-44
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

28 April 2005

Date of mailing of the international search report

22.06.2005

Name and mailing address of the ISA

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X	KALGUTKAR A S ET AL: "Amide Derivatives of Meclofenamic Acid as Selective Cyclooxygenase-2 Inhibitor" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 12, 2002, pages 521-524, XP002319950 ISSN: 0960-894X page 522, right-hand column, last paragraph - page 523, left-hand column, paragraph 1; table 2; compounds 12,13,14,15	1-10, 12-23, 25-31, 34-44
X	EP 1 321 518 A (WARNER-LAMBERT COMPANY LLC) 25 June 2003 (2003-06-25)  page 2, paragraph 6 page 4, paragraph 24	1-5,7,9, 10, 12-23, 25-31, 33-44
X	WO 03/062189 A (WARNER-LAMBERT COMPANY LLC; BARRETT, STEPHEN, DOUGLAS; KAUFMAN, MICHAEL) 31 July 2003 (2003-07-31) claim 1; examples; table 1	1-44
X	WO 00/35436 A (WARNER-LAMBERT COMPANY; DUDLEY, DAVID, THOMAS; FLORY, CRAIG, MASON; SA) 22 June 2000 (2000-06-22) claims 10,13	1-44
X	US 6 147 107 A (DENT ET AL) 14 November 2000 (2000-11-14) column 4, line 6 - line 51; claim 1	1-44
X	WO 00/41505 A (WARNER-LAMBERT COMPANY; TECLE, HAILE; BARRETT, STEPHEN, DOUGLAS) 20 July 2000 (2000-07-20) page 14 - page 16; claims 4,5; compounds 5,20	1-44
X	WO 00/40235 A (WARNER-LAMBERT COMPANY; BRIDGES, ALEXANDER, JAMES; DUDLEY, DAVID, THOMAS) 13 July 2000 (2000-07-13) page 56; claim 8; examples 6a-77a; table 1	1-44

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X	WO 01/68619 A (WARNER-LAMBERT COMPANY; BIWERSI, CATHLIN; TECLE, HAILE; WARMUS, JOSEPH) 20 September 2001 (2001-09-20) claims 6,16; examples 4,6,61 -----	1-44
X	WO 02/076496 A (VAN ANDEL INSTITUTE; DUESBERY, NICHOLAS, S; WEBB, CRAIG, P; VANDE WOUDE) 3 October 2002 (2002-10-03) claim 6 -----	1-44
X	WO 02/18319 A (WARNER-LAMBERT COMPANY; CHEN, MICHAEL, HUAI, GU; DAVIS, EDWARD, MARK;) 7 March 2002 (2002-03-07) page 92; claim 1; examples 15,20-22,27 -----	1-44
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X	DATABASE BEILSTEIN BEILSTEIN CROSSFIRE INSTITUT ZUR FOERDERUNG DER WISSENSCHAFTEN; Citation Number 134310 1988, XP002319953 abstract & ALLAIS A ET AL: CHIMIE THERAPEUTIQUE, EDITIONS DIMEO, ARCUEIL, FR, vol. 8, 1973, pages 154-168, ISSN: 0009-4374 -----	1-5
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X	SCOTT A W ET AL: "SOME HYDROXYLAMINE DERIVATIVES OF ANTHRANILIC ACID" JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY, EASTON, US, vol. 7, no. 6, 1942, pages 508-516, XP002313446 ISSN: 0022-3263 page 509, last paragraph -& DATABASE BEILSTEIN BEILSTEIN CROSSFIRE INSTITUT ZUR FOERDERUNG DER CHEMISCHEN WISSENSCHAFTEN; BRN 3461601 1990, XP002319954 abstract	1-5
X	WO 95/25723 A (AGREVO UK LIMITED; RIORDAN, PETER, DOMINIC; BODDY, IAN, KENNETH; OSBOU) 28 September 1995 (1995-09-28) claim 1; example 8; compounds 41,67,96	1-5,7,9
X	WO 03/024222 A (E. I. DU PONT DE NEMOURS AND COMPANY; BERGER, RICHARD, ALAN; FLEXNER,) 27 March 2003 (2003-03-27) page 122; claim 1; table A; compounds 568,569,570,571	1-5
A	WO 02/068406 A (AMGEN INC) 6 September 2002 (2002-09-06) the whole document	1-44
P,X	WO 2004/037853 A (IRM LLC; HE, YUN; ELLIS, DAVID, ARCHER; ANACLERIO, BETH, MARIE; KUHEN,) 6 May 2004 (2004-05-06) examples 8,9; compound 9	1-5
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>&amp; EL-KHAMRY A M ET AL: "Synthesis and reactions of some biologically active 2-(2'-thienyl)benzoxazinone and quinazolinone derivatives." DIE PHARMAZIE. MAY 1989, vol. 44, no. 5, May 1989 (1989-05), pages 312-315, ISSN: 0031-7144</p> <p>-----</p> <p>DATABASE BEILSTEIN BEILSTEIN INSTITUT ZUR FOERDERUNG DER CHEMISCHEN WISSENSCHAFTEN; BRN 5600004 1993, XP002326586 abstract &amp; EL-KHAMRY A M ET AL: "Synthesis and reactions of some biologically active 2-(2'-thienyl)benzoxazinone and quinazolinone derivatives." DIE PHARMAZIE. MAY 1989, vol. 44, no. 5, May 1989 (1989-05), pages 312-315, ISSN: 0031-7144</p>	1-44
X	<p>-----</p> <p>KOHL H ET AL: "Cyclisierungreaktionen von o-acylamino-benzhydroxamsäure-O-alkylester n" JUSTUS LIEBIGS ANNALEN DER CHEMIE, VERLAG CHEMIE GMBH. WEINHEIM, DE, vol. 766, 1972, pages 106-115, XP002094547 ISSN: 0075-4617 tables 2,3; compounds 1,4</p>	1-5
A	<p>-----</p> <p>WO 02/055501 A (AMGEN INC) 18 July 2002 (2002-07-18) claims; examples</p>	1,6,8, 26-44
X	<p>-----</p> <p>EP 0 711 757 A (F. HOFFMANN-LA ROCHE AG) 15 May 1996 (1996-05-15) claims 1,8; examples</p> <p>-----</p>	1,6,8, 26-29

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:  
1-44
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☒ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5,7,9-44(part)

compound (I) with X and Y = bond  
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2. claims: 1-5,7,9-44(part)

compound (I) with X and/or Y is not a chemical bond  
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3. claims: 6,8,26-44(part)

compound (I) with at least one of D, E, F, G is not a carbon atom  
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4. claims: 1-5,7,9-44(part)

compound (I) with at least one of R2/R3, R3/R4, R4/R5 forms a fused ring  
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5. claim: 46(part)

compound (II) which is an acid or ester  
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6. claim: 46(part)

compound (II) which is a nitrile  
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7. claim: 46(part)

compound (XV)  
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8. claim: 45

compound (III)  
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Information on patent family members

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